

Appl. No. 10/696,671

Reply to Office Action of December 12, 2006

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1-19 (canceled).

20 (currently amended). An germ-line transgenic avian which lays an egg containing an exogenous protein encoded by a transgene present in the germ-line of the transgenic avian wherein the exogenous protein is produced in the transgenic avian oviduct.

21 (currently amended). The transgenic avian egg of claim 20, wherein the egg avian is a chicken egg.

22-27 (canceled).

28 (currently amended). The transgenic avian egg of claim 20, wherein the exogenous protein is a pharmaceutical protein.

29 (currently amended). ~~An~~ The transgenic avian egg of claim 20 wherein the containing an exogenous protein is selected from the group consisting of interferon, antitrypsin, antithrombin III, collagen, factors VIII, IX, X, fibrinogen, ~~hyaluronic acid~~, insulin, lactoferrin, protein C, tissue-type plasminogen activator, somatotrophin, cytokine, antibody, human growth hormone, immunotoxin and chymotrypsin.

30 (currently amended). The transgenic avian egg of claim 20, wherein the exogenous protein is present in egg white of the egg.

31 (currently amended). ~~An~~ transgenic avian which lays an egg containing a pharmaceutical protein encoded by a transgene present in a transgene of the transgenic avian wherein the

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exogenous protein is produced in the transgenic avian oviduct, wherein the pharmaceutical protein is exogenous to the egg.

32 (currently amended). The transgenic avian egg of claim 31, wherein the egg is a chicken egg.

33 (currently amended). The transgenic avian egg of claim 31, wherein the pharmaceutical protein is present in egg white of the egg laid by the transgenic avian.

34 (currently amended). A germ-line transgenic avian which lays an egg containing egg white comprising a protein exogenous to the egg white, wherein the protein is a cytokine is encoded by a transgene present in the germline of the transgenic avian wherein the exogenous protein is produced in the transgenic avian oviduct.

35 (currently amended). The transgenic avian egg white of claim 34, wherein the egg white is from a chicken egg.

36 (canceled).

37 (currently amended). The transgenic avian egg white of claim 34, wherein the protein is selected from the group consisting of interferon, antitrypsin, antithrombin III, collagen, factors VIII, IX, X, fibrinogen, hyaluronic acid, insulin, protein C, tissue-type plasminogen activator, somatotrophin, cytokine, antibody, human growth hormone, immunotoxin and chymotrypsin.

38-40 (canceled).

41 (currently amended). A transgenic avian which lays an egg containing a cytokine encoded by a transgene present in the germline of the avian wherein the cytokine is produced in the transgenic avian oviduct and wherein the cytokine is exogenous to the egg avian.

42 (currently amended). The transgenic avian egg of claim 41, wherein the egg is a chicken egg.

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43-45 (canceled).

46 (currently amended). The transgenic avian egg of claim 41, wherein the cytokine is interferon.

47-49 (canceled).

52 (currently amended). The transgenic avian egg of claim 41, wherein the cytokine is GM-CSF.

53 (currently amended). The transgenic avian egg of claim 41, wherein the cytokine is G-CSF.

54 (currently amended). The transgenic avian egg of claim 41, wherein the cytokine is erythropoietin.

55 (currently amended). The transgenic avian egg of claim 20, wherein the exogenous protein is present at detectable levels.

56 (currently amended). The transgenic avian egg of claim 31, wherein the exogenous protein is present at detectable levels.

57-58 (canceled)

59 (new) A method comprising purifying an exogenous protein from the egg of a transgenic avian which lays the egg containing the exogenous protein wherein the exogenous protein is encoded by a transgene present in a transgene of the avian.

60. (new) The method of claim 59 wherein the exogenous protein is selected from the group consisting of interferon, antitrypsin, antithrombin III, collagen, factors VIII, IX, X, fibrinogen, insulin, lactoferrin, protein C, tissue-type plasminogen activator, somatotrophin, cytokine, antibody, human growth hormone, immunotoxin and chymotrypsin.

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61 (new) The method of claim 59 wherein the avian is a chicken.